NASA THESAURUS SUPPLEMENT

JULY 1984

A three part cumulative supplement to the 1982 edition of the NASA Thesaurus

National Aeronautics and Space Administration
Scientific and Technical Information Branch
1984
A three part cumulative supplement to the 1982 edition of the NASA Thesaurus
INTRODUCTION

The NASA Thesaurus Supplement replaces the former 6-Month Cumulative Listing of the NASA Thesaurus Changes. This cumulative supplement to the NASA Thesaurus 1982 edition, incorporates all of the information normally contained in the previous publication as well as two new features: complete hierarchies and access vocabulary. It is hoped that the additional information and the improved legibility will make this a more useful product than its predecessor. Subsequent issues of the supplement will be cumulative and will be issued every six months. For detailed information on the use of the NASA Thesaurus Supplement, consult the front matter of the NASA Thesaurus 1982 edition.

Users are encouraged to consult the online NASA Thesaurus for the most complete and up-to-date information. Addenda to old hierarchies in the 1982 edition of the NASA Thesaurus are not given because they are readily found in the online NASA Thesaurus. Inclusion of such a feature would have substantially increased the size of the publication. In using the hierarchies in the online NASA Thesaurus, users are cautioned that these hierarchies list broad and narrow terms and not their interrelationships. The online NASA Thesaurus does not show the exact relationship when there are more than three broad and/or narrow terms.

New terms to this issue are indicated with a bullet and larger type. Designed for browsability, each new term appears in the format of the following example:

• Earthnet

Many times cross references are later made postable terms. These are shown in Part 3. When new cross references are added to older terms, the term that is referred to is not listed unless it is also a new term. For older terms check the printed or the online NASA Thesaurus.

Many Comments or suggestions about this publication, including suggestions for new terms, should be directed to the Lexicographer, NASA Scientific and Technical Information Facility, P.O. Box 8757, BWI Airport, Maryland 21240.
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NASA THESAURUS SUPPLEMENT

PART 1

HIERARCHICAL LISTING

A

• A-310 AIRCRAFT
  GS COMMERCIAL AIRCRAFT
  • A-310 AIRCRAFT
  • JET AIRCRAFT
  • EUROPEAN AIRBUS
  • A-310 AIRCRAFT
  • PASSenger AIRCRAFT
  • TRANSPORT AIRCRAFT
  • SHORT HAUL AIRCRAFT
  • EUROPEAN AIRBUS
  • A-310 AIRCRAFT
  RT INTERNATIONAL COOPERATION
  SWEPt WINGS

• A-320 AIRCRAFT
  GS COMMERCIAL AIRCRAFT
  • A-320 AIRCRAFT
  • JET AIRCRAFT
  • EUROPEAN AIRBUS
  • A-320 AIRCRAFT
  • PASSenger AIRCRAFT
  • TRANSPORT AIRCRAFT
  • SHORT HAUL AIRCRAFT
  • EUROPEAN AIRBUS
  • A-320 AIRCRAFT
  RT INTERNATIONAL COOPERATION
  SWEPt WINGS

ACCOUNTING
  RT BUDGETING
  COSTS
  FINANCE

ACCRETION DISKS
  RT ASTROPHYSICS
  BINARY STARS
  BLACK HOLES (ASTRONOMY)
  DISKS (SHAPES)
  ECLIPSING BINARY STARS
  GALACTIC NUCLE
  ROTATING DISKS
  STELLAR MASS ACCRETION

ACEE PROGRAM
  UF AIRCRAFT ENERGY EFFICIENCY PROGRAM
  USE ACEE PROGRAM
  GS PROGRAMS
  NASA PROGRAMS
  ACEE PROGRAM
  RT AIRCRAFT ENGINES
  COMBUSTION EFFICIENCY

ADA (PROGRAMMING LANGUAGE)
  GS LANGUAGES
  ADA (PROGRAMMING LANGUAGE)
  RT COMPUTER PROGRAMMING
  EMBEDDED COMPUTER SYSTEMS

AEROASSIST
  RT AEROBRaking
  AEROCapture
  AEROMANEuVERING
  ATMOSPHERIC ENTRY
  INTERPLANETARY TRANSFER ORBITS
  TRANSFER ORBITS

AEROCAPTURE
  RT AEROSStis
  AEROCapture
  AEROMANEuVERING
  ATMOSPHERIC ENTRY
  INTERPLANETARY TRANSFER ORBITS
  TRANSFER ORBITS

AERONANEuVERING
  RT AEROSStis
  AEROCapture
  AEROCAPTURE
  ATMOSPHERIC ENTRY
  INTERPLANETARY TRANSFER ORBITS
  TRANSFER ORBITS

AEROGRAphic UNITS
  RT AGRICulture
  AGRIStARS PROJECT
  FARMUNDS
  LARGE AREA CROP INVENTORY
  EXPERIMENT

• AIR START
  GS STARTING
  • AIR START
  RT AIRCRAFT CONTROL
  AIRCRAFT ENGINES
  ENGINE CONTROL
  FLIGHT TESTS

AIRCRAFT POWER SUPPLIES
  GS ELECTRIC POWER SUPPLIES
  • AIRCRAFT POWER SUPPLIES
  • AIRCRAFT EQUIPMENT
  • AUXILIARY POWER SOURCES
  • ELECTRIC GENERATORS
  • POWER SUPPLIES

ALBERTA
  GS NATIONS
  • CANADA
  • ALBERTA

ALLENDE METEORITE
  GS CELESTIAL BODIES
  • METEORITIES
  • STONY METEORITES
  • CHONDRITES
  • CARBONACEOUS CHONDRITES
  • ALLENDE METEORITE

ANIK SATELLITES
  GS CANADIAN SPACECRAFT
  • ANIK SATELLITES
  • ANIK 1
  • ANIK 2
  • ANIK 3
  • SATellites
  • ARTIAL SATELLITES
  • SYNCHRONOUS SATELLITES
  • ANIK SATELLITES
  • ANIK 1
  • ANIK 2
  • ANIK 3
  • EARTH SATELLITES
  • SYNCHRONOUS SATELLITES
  • ANIK SATELLITES
  • ANIK 1
  • ANIK 2
  • ANIK 3

RT INTERNATIONAL COOPERATION
SWEPt WINGS

• ANTISTATIC DEVICES
  USE STATIC DISCHARGERS

APL (PROGRAMMING LANGUAGE)
  GS LANGUAGES
  • APL (PROGRAMMING LANGUAGE)
  RT COMPUTER PROGRAMMING

ARABSAT
  GS SATELLITES
  • ARABSAT
  • ARTIAL SATELLITES
  • ARABSAT
  • EARTH SATELLITES
  • ARABSAT
  RT INTERNATIONAL COOPERATION

• ARC CLOUDS
  GS CLOUDS
  • CLOUDS (METEOROLOGY)
  • CONVATION CLOUDS
  • CUMULONIMBUS CLOUDS
  • ARC CLOUDS
  RT METEOROLOGY
  OBSERVATION AIRCRAFT
  SATELLITE OBSERVATION

ARIES SOUNDING ROCKET
  GS ROCKET VEHICLES
  • SOUNDING ROCKETS
  • ARIES SOUNDING ROCKET

• ASTRONOMICAL SATELLITES
  GS OBSERVATORIES
  • ASTRONOMICAL OBSERVATORIES
  • ASTRONOMICAL SATELLITES
  • HEAD
  • HEAO 1
  • HEAO 2
  • HEAO 3
  • OAO
  • OAO 1
  • OAO 2
  • OAO 3
  • OSO
  • OSO-1
  • OSO-2
  • OSO-3
  • OSO-4
  • OSO-5
  • OSO-6
  • OSO-7
  • OSO-8
  • SATELLITES

• New Term
### Asymptotic Properties

**Asymptotic Satellites (Cont.)**
- Artificial Satellites
- Astronomical Satellites
- HEAO 1
- HEAO 2
- HEAO 3
- OAO
- OAO 1
- OAO 2
- OAO 3
- OAO 4
- OAO 5
- OAO 6
- OAO 7
- OAO 8
- Earth Satellites
  - Astronomical Satellites
    - HEAO 1
    - HEAO 2
    - HEAO 3
    - OAO
    - OAO 1
    - OAO 2
    - OAO 3
    - OAO 4
    - OAO 5
    - OAO 6
    - OAO 7
    - OAO 8
- Scientific Satellites
  - Astronomical Satellites
- Remote Sensing Satellites

**Asymptotic Properties**
- Asymptotic Methods
- Asymptotic Series
- Integral Equations
- Mathematical Models

**Atmospheric Correction**
- Atmospheric Effects
- Clouds (Meteorology)
- Geometric Rectification (Imagery)
- Image Processing
- Infrared Radiometers
- Radiative Transfer
- Satellite Imagery
- Spatial Resolution

**Atmospheric Loading**
- Use: Pollution Transport

**Audio Data**
- RT AUDIO FREQUENCIES
  - DATA
  - DATA TRANSMISSION

**Audio Signals**
- RT AUDIO FREQUENCIES
- Auditory Signals
- Signal Processing
- Signals

**Automated Transit Vehicles**
- GS Surface Vehicles
- Automated Transit Vehicles
- Automated Guideway Transit Vehicles
- RT Conveyors
- Electric Motor Vehicles
- Passengers
- Rail Transportation
- Rapid Transit Systems
- Transportation
- Urban Transportation
- Vehicles

**Autumn**
- GS Seasons
- Autumn

**Awards**
- SN (Excludes Contacts & Grants)
  - RT ASTRONAUTS
  - Scientists

**Backward Differentiating**
- RT Differential Equations
- Numerical Stability
- Problem Solving

**Backward Facing Steps**
- UF Rearward Facing Steps
- FT Flow Geometry
- Fluid Boundaries
- Reattached Flow
- Recirculating Fluid Flow
- Star Steps

**Bahamas**
- GS Landforms
  - Islands
  - West Indies
  - Bahamas
  - Nations
  - Bahamas
  - RT Caribbean Region

**Bandwidth Filters**
- GS Electromagnetic Wave Filters
  - Electric Filters
  - Bandstop Filters
  - Adaptive Filters
  - Bandpass Filters
  - Bandwidth
  - Crystal Filters
  - High Pass Filters
  - Low Pass Filters
  - Microwave Filters
  - Optical Filters
  - Tracking Filters
  - Waveguide Filters

**Baryon Resonance**
- GS Particles
  - Elementary Particles
  - Fermions
  - Baryon Resonance
  - Baryon Resonance
  - Baryons
  - Hyperons

**Benin**
- GS Nations
  - Benin
  - RT Africa

**Beta Interactions**
- Use: Weak Interactions (Field Theory)

**Biofeedback**
- RT Aerospace Medicine
- Biocontrol Systems
- Blood Pressure
- Conditioning (Learning)

**Biofeedback (Cont.)**
- Feedback Control
- Heart Rate
- Human Factors Engineering
- Psychology
- Sensory Feedback

**Biocytin**
- GS Ratios
  - Dimensionless Numbers
  - Biocytin Number
  - RT Heat Transfer
  - Numbers

**Bit Error Rate**
- RT Binary Codes
  - Binary Data
  - Binary Digits
  - Bit Synchronization
  - Bits
  - Error Analysis
  - Error Correcting Codes
  - Error Detection Codes
  - Error Signals
  - Pulse Communication
  - Signal to Noise Ratios
  - Transmission Efficiency

**Brazilian Space Program**
- GS Programs
  - Space Programs
  - Brazilian Space Program
  - RT Brazil

**British Columbia**
- GS Nations
  - Canada
  - British Columbia

**Bruceton Test**
- Use: Statistical Tests

**Brunt-Vaisala Frequency**
- GS Constraints
  - Meteorological Parameters
  - Brunt-Vaisala Frequency
  - Frequencies
  - Brunt-Vaisala Frequency
  - Air Currents
  - Air Flow
  - Air Masses
  - Atmospheric Circulation
  - Atmospheric Physics
  - Atmospheric Stratification Oscillations

**Burn-In**
- RT Failure
  - Failure Analysis
  - Integrated Circuits
  - Quality Control

**Business Management**
- Use: Industrial Management

**C**

**CAD (Design)**
- Use: Computer Aided Design

**CAM (Manufacturing)**
- Use: Computer Aided Manufacturing

**Cambodia**
- Use: Kampuchea

**Canadian Spacecraft**
- GS Canadian Spacecraft
  - Alouette Satellites
  - Anik Satellites
  - Anik 1
  - Anik 2
  - Anik 3
  - Radarsat
  - RT Canada
  - Canadian Space Programs
  - SPACECRAFT

**Caribbean Region**
- RT Bahamas
NASA THESAURUS SUPPLEMENT (PART 1)

**CARIBBEAN REGION-(CONT.)**
- Barbados
- Belize
- Cuba
- Developing Nations
- Dominican Republic
- French Guiana
- Haiti
- Jamaica
- Martinique
- Suriname
- Trinidad and Tobago
- Virgin Islands

**CARRINGTON ROTATION**
- Use: Solar Rotation

**CATACLYSMIC VARIABLES**
- GS: Celestial Bodies
  - Stars
    - Binary Stars
    - Cataclysmic Variables
    - Variable Stars
  - Cataclysmic Variables
- RT: Dwarf Stars
  - Eclipsing Binary Stars
  - Flare Stars
  - Hot Stars
  - Nova
  - Periodic Variations
  - Solar Oscillations
  - Stellar Flares
  - Stellar Mass Ejection
  - White Dwarf Stars

**CAYTONS**
- RT: Electric Fields
  - Plasma Density
  - Plasma Physics
  - Plasma Resonance

**CDC CYBER 205 COMPUTER**
- GS: Data Processing Equipment
  - Computers
    - CDC Computers
    - CDC Cyber 205 Computer
    - Digital Computers
    - CDC Cyber 205 Computer

**CERAMIC MATRIX COMPOSITES**
- GS: Ceramics
  - Ceramic Matrix Composites
    - Composite Materials
    - Ceramic Matrix Composites
  - RT: Aircraft Construction Materials
    - Boron Reinforced Materials
    - Ceramic Bonding
    - Ceramic Honeycombs
    - Ceramics
    - Composite Structures
    - Matrix Materials
    - Reinforcing Fibers
    - Silicon Nitrides
    - Titanium Carbides
    - Titanium Nitrides

**CHANGE DETECTION**
- RT: Aerial Photography
  - Aerial Reconnaissance
  - Earth Resources Program
    - Image Processing
    - Imagery
    - Land Use
    - Multispectral Band Scanners
    - Multispectral Photography
    - Pattern Recognition
    - Photointerpretation
    - Radar Imagery
    - Remote Sensing
    - Scene Analysis
    - Satellite Imaging
    - Terrain Analysis

**CIRCULAR WAVEGUIDES**
- GS: Transmission Lines
  - Communication Cables
  - Waves
  - Circular Waveguides
- RT: Microwave Transmission
  - Propagation Modes

**CIRCULATION DISTRIBUTION**
- RT: Atmospheric Circulation
  - Circulation
  - Distribution
  - Velocity Distribution

**CLUSTER ANALYSIS**
- RT: Classifications
  - Image Analysis
  - Image Processing
  - Pattern Recognition
  - Remote Sensing

**COMMAND LANGUAGES**
- GS: Languages
  - Command Languages
  - Query Languages
- RT: Information Retrieval

**COMMERCIAL SPACECRAFT**
- GS: Commercial Spacecraft
  - RCA Satcom Satellites
- RT: Aerospace Industry
  - Aerospace Vehicles
  - Commerce
  - Communication Satellites
    - Industries
    - Space Commercialization
    - Space Industrialization
    - Space Manufacturing
  - Space Processing

**COMMONALITY**
- GS: Standardization
  - Commonality
- RT: Aircraft Equipment
  - Cost Reduction
  - Efficiency
  - Equipment Specifications
  - Ground Support Systems
  - Spacecraft Components

**COMPULSATORS**
- RT: AG Generators
  - Compensators
  - Electric Power Supplies
  - Pulse Generators

**COMPUTATIONAL CHEMISTRY**
- GS: Analysis (Mathematics)
  - Numerical Analysis
  - Computational Chemistry
  - Chemistry
  - Computer Techniques
  - Computerized Simulation
  - Physical Chemistry
  - Tests

**COMPUTATIONAL GRIDS**
- UF: Grids (Mathematics)
  - Mesh (Mathematics)
  - Coordinates
  - Mathematical Models
  - Numerical Analysis
  - Problem Solving

**COMPUTER AIDED DESIGN**
- UF: CAD (Design)
  - Computerized Design
  - Computer Aided Design
  - IPAD
- RT: Aircraft Design
  - Amplifier Design
  - Computer Graphics
  - Computer Techniques
  - Computerized Simulation
  - Design
  - Drafting Machines
  - Engine Design
  - Helicopter Design
  - Lens Design
  - Lofting
  - Logic Design
  - Missile Design
  - Reactor Design
  - Robotics
  - Satellite Design
  - Spacecraft Design
  - Structural Design

**COMPUTER AIDED MANUFACTURING**
- UF: CAM (Manufacturing)
  - Manufacturing
  - GS: Manufacturing

**CONTROLL ED SYSTEMS DESIGN**
- COMPUTER AIDED MANUFACTURING-(CONT.)
  - Computer Aided Manufacturing
  - Computer Graphics
  - Computer Techniques
  - Computerized Simulation
  - Robotics

**COMPUTER AIDED MAPPING**
- GS: Mapping
  - RT: Computer Aided Mapping
    - Computer Graphics
    - Computer Techniques
    - Computerized Simulation
    - Maps

**COMPUTERIZED DESIGN**
- Use: Computer Aided Design

**CONCURRENT PROCESSING**
- GS: Data Processing
  - Concurrent Processing
- RT: Architecture (Computers)
  - Computer Systems Design
  - Multiprocessing (Computers)
  - Parallel Processing (Computers)

**CONDENSATION NUCLEI**
- GS: Condensation Nuclei
  - Aitken Nuclei
- RT: Aerosols
  - Cloud Physics
  - Clouds (Meteorology)
  - Condensation
  - Condensing
  - Drops (Liquids)
  - Ice Nuclei
  - Meteorology
  - Microparticles
  - Nucleation
  - Rain

**CONDENSERS (Liquefiers)**
- UF: Condenser Radiators
  - GS: Condensers (Liquefiers)
  - Jet Condensers
  - RT: Absorbers (Equipment)
    - Air Conditioning
    - Air Conditioning Equipment
    - Cold Traps
    - Columns (Process Engineering)
    - Compressors
    - Condensates
    - Condensers
    - Condensing
    - Cooling Fins
    - Cooling Systems
    - Distillation Equipment
    - Drying Apparatus
    - Evaporators
    - Exhaust Systems
    - Film Condensation
    - Heat Exchangers
    - Heat Pumps
    - Liquefied Gases
    - Refrigerating Machinery
    - Separators
    - Spacecraft Radiators
    - Vaporizers

**CONJUGATE GRADIENT METHOD**
- GS: Analysis (Mathematics)
  - Numerical Analysis
  - Iteration
  - Conjugate Gradient Method
  - Algorithms
  - Conjugates
  - Gradients
  - Iterative Solution

**CONTINENTAL MARGINS**
- Use: Continental Shelves

**CONTINUUM MODELING**
- RT: Continuum Mechanics
  - Continuums
  - Large Space Structures
  - Mathematical Models
  - Structural Analysis

**CONTROLLED SYSTEMS DESIGN**
- GS: Systems Engineering

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**New Term**
COOLANT LOSS

CONTROLLED SYSTEMS DESIGN (CONT.)

RT AEROSPACE SYSTEMS
  AUTOMATIC CONTROL
  AUTOMATION
  BIOPHYSICS
  BIONICS
  BON DGRAPHS
  CONTROL
  CONTROL THEORY
  CONTROLLED SYSTEMS
  CYBERNETICS
  DESIGN ANALYSIS
  ELECTRIC CONTROL
  ELECTRONIC CONTROL
  FEEDBACK CONTROL
  MATHEMATICAL MODELS
  NUMERICAL CONTROL
  OPERATIONS RESEARCH
  OPTIMAL CONTROL
  PARAMETER IDENTIFICATION
  SYSTEM IDENTIFICATION
  SYSTEMS ANALYSIS
  SYSTEMS INTEGRATION

• COOLANT LOSS

USE LOSS OF COOLANT

• COROTATION

GS CYLINDRICAL COORDINATES
  USE CYLINDRICAL COORDINATES

COSMOS 954 SATELLITE
GS COSMOS SATELLITES
  ARTIFICIAL SATELLITES
  COSMOS SATELLITES
  COSMOS 954 SATELLITE
  EARTH SATELLITES
  COSMOS SATELLITES
  COSMOS 954 SATELLITE

RT CONTROLLED SYSTEMS DESIGN

CRACK ARREST
RT CRACK INITIATION
  CRACK PROPAGATION
  CRACK TIPS
  CRACKING (FRACTERING)

CRACK TIPS
GS CRACKS
  CRACK TIPS
RT CRACK INITIATION
  CRACK PROPAGATION

CRANK-NICHOLSON METHOD
RT BOUNDARY VALUE PROBLEMS
  DIFFERENTIAL EQUATIONS
  FINITE DIFFERENCE THEORY
  FINITE ELEMENT METHOD
  NUMERICAL ANALYSIS

• CRANKED WINGS

USE SWEEP WINGS

CRAY COMPUTERS
GS SUPERCOMPUTERS
  CRAY COMPUTERS

CYCLIC ADENOSINE MONOPHOSPHATE
USE CYCLIC AMP

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DESYNCHRONIZATION (CONT.)

DEATH VALLEY (CA)
DESSERTS
DROUGHT
EARTH ENVIRONMENT
GOBI DESERT
LAND
LAND USE
MAN ENVIRONMENT INTERACTIONS
MOJAVE DESERT (CA)
Oases
REMOTE SENSING
Sahara Desert (AFRICA)
STEPS
WADIS

DIFFERENTIAL ANALYZERS

RT ALGORITHMS
  ANALOG COMPUTERS
  COMPUTERIZED SIMULATION
  DIFFERENTIAL EQUATIONS
  DIGITAL COMPUTERS
  DIGITAL INTEGRATORS

DIKES (GEOLOGY)

USE ROCK INTRUSIONS

DINING PHILOSOPHERS PROBLEM

RT DISTRIBUTED PROCESSING
  INTERPROCESSOR COMMUNICATION
  PROBLEM SOLVING
  SYNCHRONISM

DIRECTION FINDING
RT BEARING (DIRECTION)
  RADIO DIRECTION FINDERS
  SIGNAL PROCESSING

• DIRECTIONAL COUPLERS

RT ANTENNA COMPONENTS
  COUPLERS
  COUPLING
  COUPLINGS
  IMPEDANCE MATCHING
  MICROSTRIP TRANSMISSION LINES
  MICROVEEN COUPLINGS
  TRANSMISSION LINES
  Yokes

DIRECTORIES
RT HANDBOOKS
  MANUALS

DISTRIBUTED PROCESSING
GS DATA PROCESSING
  DISTRIBUTED PROCESSING
RT ARCHITECTURE (COMPUTERS)
  COMPUTER NETWORKS
  COMPUTER SYSTEMS DESIGN
  DINING PHILOSOPHERS PROBLEM
  MICROPROCESSORS

DMS SATELLITES

USE DMS SATELLITES

DEFENSE METEOROLOGICAL SATELLITE PROGRAM
USE DMSP SATELLITES

DEMAND ASSIGNMENT MULTIPLE ACCESS
USE DMSP SATELLITES

DESSERTIFICATION
RT ARID LANDS
  BARREN LAND

• New Term
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DMSP SATELLITES-(CONT.)
REMOTE SENSING
SATELLITE-BORNE PHOTOGRAPHY

DOUBLE STARS
USE BINARY STARS

• DRAG COEFFICIENTS
SN (USE OF A MORE SPECIFIC TERM IS
RECOMMENDED–CONSULT THE TERMS
LISTED BELOW)
RT AERODYNAMIC COEFFICIENTS
AERODYNAMIC DRAG
HYDRODYNAMIC COEFFICIENTS

DREDGING
RT ARTIFICIAL HARBORS
HARBORS
MINERAL DEPOSITS
MINING
UNDERWATER RESOURCES

DRONES FOR AERODYNAMIC AND STRUCT TEST
USE DAST PROGRAM

DWARF GALAXIES
GS CELESTIAL BODIES
... GALAXIES
... DWARF GALAXIES
RT LOCAL GROUP (ASTRONOMY)

EARTHNET
RT EARTH OBSERVATIONS (FROM SPACE)
EARTH RESOURCES
ESA SATELLITES
EUROPEAN SPACE PROGRAMS
LANDSAT SATELLITES
REMOTE SENSORS
SYNTHETIC APERTURE RADAR

EASTERN HEMISPHERE
RT EARTH (PLANET)
GEOGRAPHY
WESTERN HEMISPHERE

EINSTEIN OBSERVATORY
USE HEAD 2

• ELECTRIC AIRCRAFT
USE FLY BY WIRE CONTROL

ELECTRIC FURNACES
GS HEATING EQUIPMENT
. . . FURNACES
. . . ELECTRIC FURNACES
RT MATERIALS
SPACE PROCESSING

• ELECTROCHROMISM
RT COLOR
. . . DISPLAY DEVICES
. . . ELECTRO-OPTICS
. . . ELECTROCHEMISTRY
. . . THIN FILMS

• ELECTRODE MATERIALS
RT ANODES
ANODES
ANODIC COATINGS
CATHODES
CATHOdic COATINGS
CELL ANODES
CELL CATHODES
ELECTRODES
PHOTOCATHODES
PHOTOELECTRIC CELLS
PHOTOELECTRIC MATERIALS
PHOTOELECTROCHEMICAL DEVICES
TUBE ANODES

EMBEDDED COMPUTER SYSTEMS
GS DATA PROCESSING EQUIPMENT
. . . COMPUTERS
. . . EMBEDDED COMPUTER SYSTEMS
. . . AIRBORNE/SPACEBORNE
COMPUTERS
RT ADA (PROGRAMMING LANGUAGE)

EMPSNAGGE USE TAIL ASSEMBLIES

ENCKE COMET
GS CELESTIAL BODIES
. . . COMETS
. . . ENCKE COMET

ENERGY EFFICIENCY TRANSPORT PROGRAM
USE ACEE PROGRAM

EUROPEAN LARGE TELECOMM SATELLITE
USE L-SAT

EUROPEAN RETRIEVABLE CARRIER
USE EURECA (ESA)

EXERCISE
USE PHYSICAL EXERCISE

EXPERIMENT DESIGN
SN (DESIGN OF EXPERIMENTS EXCLUDES
PROTOTYPES)
UF DESIGN OF EXPERIMENTS
GS EXPERIMENT DESIGN
RT COVARIANCE
DEGREES OF FREEDOM
= DESIGN
FACTOR ANALYSIS
LABORATORIES
MATHEMATICAL MODELS
OPERATIONS RESEARCH
ORTHOGONALITY
QUALITY CONTROL
REGRESSION ANALYSIS
STATISTICAL ANALYSIS
SYSTEMS ENGINEERING
VARIANCE (STATISTICS)

EXPERT SYSTEMS
GS INTELLIGENCE
. . . ARTIFICIAL INTELLIGENCE
. . . EXPERT SYSTEMS
RT COMPUTER PROGRAMMING
LOGIC
LOGIC PROGRAMMING

EXPLORER 44 SATELLITE
UF SOLRAD 10 SATELLITE
GS SATELLITES
. . . ARTIFICIAL SATELLITES
. . . EXPLORER SATELLITES
. . . EXPLORER 44 SATELLITE

EXPLORER 46 SATELLITE
UF METEOROID TECHNOLOGY SATELLITE
GS SATELLITES
. . . ARTIFICIAL SATELLITES
. . . EXPLORER SATELLITES
. . . EXPLORER 46 SATELLITE

FAR UV SPECTROSCOPIC EXPLORER
GS SATELLITES
. . . ARTIFICIAL SATELLITES
. . . EXPLORER SATELLITES
. . . FAR UV SPECTROSCOPIC EXPLORER

FASTING
RT AEROSPACE MEDICINE
DIETS
FOOD INTAKE
HYPOXIA
FAUNA
USE ANIMALS

FEATURE EXTRACTION
USE PATTERN RECOGNITION

FEATURE IDENTIFICATION AND LOCATION
EXPER
RT EARTH OBSERVATIONS (FROM SPACE)
IMAGE PROCESSING
PATTERN RECOGNITION
REMOTE SENSING
REMOTE SENSORS
SCENE ANALYSIS
SPACE SHUTTLE PAYLOADS

FIRE RETARDANTS
USE FLAME RETARDANTS

FIRMWARE
RT COMPUTER PROGRAMMING
HARDWARE
MICROPROCESSORS
MICROPROGRAMMING

FISCHER-TROPSCH PROCESS
RT CATALYSIS
CATALYTIC ACTIVITY
REACTION KINETICS
SYNTHESIS (CHEMISTRY)
SYNTHETIC FUELS

FLAPERONS
GS AIRFOILS
. . . AILERONS
. . . FLAPERONS
. . . FLAPS (CONTROL SURFACES)
. . . FLAPERONS
. . . CONTROL SURFACES
. . . AILERONS
. . . FLAPERONS
. . . FLAPS (CONTROL SURFACES)
. . . FLAPERONS
RT AERODYNAMIC BRAKES

FLAVOR (PARTICLE PHYSICS)
GS THEORETICAL PHYSICS
. . . FLAVOR (PARTICLE PHYSICS)
RT HADRONS
PARTICLE INTERACTIONS
PARTICLE THEORY
QUANTUM THEORY
QUARKS

• FLIGHT MANAGEMENT SYSTEMS
GS MANAGEMENT SYSTEMS
. . . FLIGHT MANAGEMENT SYSTEMS
RT AIR NAVIGATION
AIR TRAFFIC CONTROL
AIRBORNE/SPACEBORNE COMPUTERS
AUTOMATIC FLIGHT CONTROL
AUTOMATIC LANDING CONTROL
AVIONICS
COMPUTER TECHNIQUES
FLIGHT CONTROL
GROUND BASED CONTROL
NAVIGATION AIDS
ONBOARD DATA PROCESSING
SYSTEMS ENGINEERING

FLOAT ZONES
RT CRYSTAL GROWTH
. . . MELTS (CRYSTAL GROWTH)
. . . SILICON
. . . SOLAR CELLS
. . . SPACE PROCESSING
. . . ZONE MELTING

FLUID MANAGEMENT
RT CRYOGENIC FLUID STORAGE
CRYOGENIC FLUIDS
CRYOGENIC ROCKET PROPELLANTS
FLUID DYNAMICS
FUEL CONTROL
REDUCED GRAVITY

FLUID-SOLID INTERACTIONS
RT GAS-SOLID INTERFACES
LIQUID-SOLID INTERFACES
SURFACE REACTIONS

FORMYL IONS
GS IONS
. . . FORMYL IONS
. . . RADICALS
. . . FORMYL IONS
## NASA Thesaurus Supplement (Part 1)

**New Term**

### Imagery Radar
- **GS Radar**
  - Imaging Radar
- **RT Radar Imagery**
  - Remote Sensors
  - Side-looking Radar
  - Synthetic Aperture Radar

### Indoor Air Pollution
- **GS Pollution**
  - Environment Pollution
  - Air Pollution
  - Indoor Air Pollution
- **RT Air Quality**
  - Air Sampling
  - Buildings

### Information Transfer
- **RT Information Dissemination**
  - Information Flow
  - Information Management
  - Information Retrieval
  - Information Systems
  - International Cooperation
  - Technology Transfer
  - Technology Utilization

### Infrared Signatures
- **GS Signatures**
  - Infrared Signatures
- **RT Infrared Detectors**
  - Infrared Radiation
  - Infrared Spectra
  - Signature Analysis

### Insat Satellites
- **Use Indian Spacecraft**

### Integral Rocket Ramjets
- **GS Engines**
  - Air Breathing Engines
  - Gas Turbine Engines
  - Jet Engines
  - Ramjet Engines
  - Integral Rocket Ramjets
  - Internal Combustion Engines
  - Gas Turbine Engines
  - Jet Engines
  - Ramjet Engines
- **RT Solid Propellant Rocket Engines**
  - Turbojet Engines

### Integrals
- **RT Differential Equations**
  - Functional
  - Integral Calculus
  - Mathematics

### Integrated Library Systems
- **GS Information Systems**
  - Integrated Library Systems
- **RT Information Dissemination**
  - Information Management
  - Information Retrieval
  - Libraries
  - Online Systems

### Interactional Aerodynamics
- **GS Fluid Mechanics**
  - Fluid Dynamics
  - Gas Dynamics
- **RT Airfoils**
  - Computational Fluid Dynamics
  - Flow
  - Laminar Boundary Layer

### Interdigital Transducers
- **GS Transducers**
  - Interdigital Transducers
- **RT Digital Transducers**
  - Electroacoustic Transducers
  - Piezoelectric Transducers
  - Surface Acoustic Wave Devices

### Interpersonal Relations
- **Use Human Relations**

### Ion Spectrometers
- **Use Mass Spectrometers**

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**Ionopause**
- **SN** (Excludes Plasmapause)
- **RT** Cometary Atmospheres
- Planetary Atmospheres
- Plasmapause
- Space Plasmas
- Venus Atmosphere

**IRAS-ARAKI-ALCOCK Comet**
- **GS Celestial Bodies**
  - Comets
  - IRAS-ARAKI-ALCOCK Comet
- **RT Infrared Astronomy Satellite**
  - Solar System

**IRS (Indian Spacecraft)**
- **Use Indian Spacecraft**

**Japanese Spacecraft**
- **UF** MOS (Japanese Spacecraft)
- **RT Japan**
  - Spacecraft

**Jupiter Satellites**
- **GS Celestial Bodies**
  - Natural Satellites
  - Jupiter Satellites
  - Galilean Satellites
  - Callisto
  - Europa
  - Ganymede
  - Io
  - Solid Satellites
  - Natural Satellites
  - Jupiter Satellites
  - Amalthea
  - Galilean Satellites
  - Callisto
  - Europa
  - Ganymede
  - Io
  - RT Jupiter (Planet)
  - Jupiters Rings
  - Solar System

**K-Mesons**
- **Use Kaons**

**Kampuchea**
- **UF Cambodia**
- **GS Nations**
  - Kampuchea
  - RT Asia

**L-Sat**
- **UF** European Large Telecom Satellite
  - ESA Spacecraft
  - ESA Satellites
  - L-Sat Satellites
  - Artificial Satellites
  - Communication Satellites
  - L-Sat
  - ESA Satellites
  - Earth Satellites
  - Communication Satellites
  - L-Sat
  - ESA Satellites
  - L-Sat
  - RT Satellite Networks

**LandSat 4**
- **UF** Earth Resources Technology Satellite D
  - ERTS-D
  - **GS Satellites**
  - Artificial Satellites

**LandSat 5**
- **GS Satellites**
  - Artificial Satellites
- **RT Earth Satellites**
  - LandSat 5

**LandSat 6**
- **GS Satellites**
  - Artificial Satellites
  - LandSat 6

**Lunar Atmosphere**
- **UF** Lunar Ionosphere
- **GS Environments**
  - Extraterrestrial Environments
  - Lunar Environment
  - Lunar Atmosphere
  - Satellite Atmospheres
  - Lunar Atmosphere
  - **RT Moon**

**Loudness Melting**
- **GS Phase Transformations**
  - Melting
- **RT Levitation Melting**
  - External Surface Currents
  - Levitation
  - Liquid Metals
  - Low Gravity Manufacturing
  - Magnetic Suspension
  - Metallurgy
  - Ohmic Dissipation
  - Resistance Heating
  - Space Manufacturing
  - Space Processing

**Light Valves**
- **RT Electro-Optics**
  - Light Modulation
  - Liquid Crystals
  - Optical Data Processing

**Liquid Plus Solid Zones**
- **Use Mushy Zones**

**Local Group (Astronomy)**
- **GS Celestial Bodies**
  - Galaxies
  - Galactic Clusters
  - Local Group (Astronomy)
  - Andromeda Galaxies
- **RT Barred Galaxies**
  - Cosmology
  - Disk Galaxies
  - Dwarf Galaxies
  - Elliptical Galaxies
  - Spiral Galaxies
  - Virgo Galactic Cluster

**Logic Programming**
- **GS Software Engineering**
  - Computer Programming
  - Logic Programming
  - RT Artificial Intelligence
  - Expert Systems
  - Logic Design

**Loss of Coolant**
- **UF Coolant Loss**
  - Accidents
  - Loss of Coolant
- **RT Coolants**
  - Leakage
  - Losses
  - Nuclear Reactors
  - Reactor Materials

**Low Intensity X-Ray Imaging Scope**
- **Use Liniscopes**

**Low Reynolds Number**
- **SN** (RN Below 2,000)
- **RT High Reynolds Number**
  - Reynolds Number

**Lunar Spacecraft**
- **UF** Satellite Networks
  - **GS**
  - LandSat D
  - Earth Satellites
  - LandSat 4
  - **RT** Moon

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**New Term**
MADAGASCAR

LUNAR ATMOSPHERE-(CONT.)
PLANETARY ATMOSPHERES

MADAGASCAR USE MALAGASY REPUBLIC

MAGELLAN MISSION
GS SATELLITES . . ARTIFICIAL SATELLITES . . ESA SATELLITES . . MAGELLAN MISSION . . EARTH SATELLITES . . ESA SATELLITES . . MAGELLAN MISSION
RT EXTREME ULTRAVIOLET RADIATION
FAR ULTRAVIOLET RADIATION SPACEBORNE ASTRONOMY

MAGNETIC BEARINGS
GS BEARINGS . . MAGNETIC BEARINGS RT LEVITATION MAGNETIC SUSPENSION

MAGSAT B SATELLITE
GS SATELLITES . . ARTIFICIAL SATELLITES . . MAGSAT B SATELLITE . . EARTH SATELLITES . . MAGSAT B SATELLITE SCIENTIFIC SATELLITES . . MAGSAT B SATELLITE.
RT GEOMAGNETISM MAGNETOMETERS

MANNED MANEUVERING UNITS
GS EXTRAVEHICULAR MOBILITY UNITS . . ASTRONAUT MANEUVERING EQUIPMENT . . MAGELS MANEUVERING UNITS RT ASTRONAUT LOCOMOTION EXTRAVEHICULAR ACTIVITY USE SUPPORT SYSTEMS ORBITAL SERVICING SELF MANEUVERING UNITS SPACE SUITS

MAPSAT
GS SATELLITES . . ARTIFICIAL SATELLITES MAPSAT . . EARTH SATELLITES MAPSAT.
RT LANDSAT SATELLITES MAPPING REMOTE SENSING STEREOPHOTOGRAPHY

MARANGONI CONVECTION
GS CONVECTION . . MARANGONI CONVECTION RT CONVECTIVE FLOW FREE CONVECTION INTERFACIAL TENSION LOW GRAVITY MANUFACTURING MELTS (CRYSTAL GROWTH) REDUCED GRAVITY SPACE PROCESSING

MARECS MARITIME SATELLITES
GS ESA SPACECRAFT . . MARECS MARITIME SATELLITES SATELLITES . ARTIFICIAL SATELLITES COMMUNICATION SATELLITES . . MARECS MARITIME SATELLITES EARTH SATELLITES COMMUNICATION SATELLITES . MARECS MARITIME SATELLITES MARITIME SATELLITES . EDA SATELLITES MARECS MARITIME SATELLITES MARITIME SATELLITES . MARECS MARITIME SATELLITES MARITIME SATELLITES . MARECS MARITIME SATELLITES MARITIME SATELLITES . MARECS MARITIME SATELLITES MARITIME SATELLITES.
RT EUROPEAN SPACE PROGRAMS

MARECS MARITIME SATELLITES-(CONT.)
SATELLITE NETWORKS

MARINER MARK 2 SPACECRAFT
RT FLYBY MISSIONS INTERPLANETARY FLIGHT SPACECRAFT

MPEGAMMECHAMIC
RT LARGE SPACE STRUCTURES STRUCTURAL ANALYSIS STRUCTURAL ENGINEERING TRUSSES

MEMORY (COMPUTERS)
RT ARCHITECTURE (COMPUTERS) COMPUTER DESIGN COMPUTER STORAGE DEVICES COMPUTERS HOLE BURNING MAGNETIC DISKS VIDEO DISKS

MESFETS USE FIELD EFFECT TRANSISTORS

MESHE (MATHEMATICS)
USE COMPUTATIONAL GRIDS

MESON RESONANCE
GS PARTICLES . . ELEMENTARY PARTICLES . . BOSONS . . MESONS . . MESON RESONANCE \( X \) MESONS . . FERMIONS . . MESON RESONANCE NUCLEAR PARTICLES . . BOSONS . . MESONS . . MESON RESONANCE \( X \) MESONS.
RT BARYONS HYPERIONS

METALLICITY
RT ABUNDANCE CHEMICAL ANALYSIS CHEMICAL COMPOSITION GALACTIC CLUSTERS GALAXIES GLOBULAR CLUSTERS HYDROGEN INTERSTELLAR MATTER MASS RATIOS METALLIC STARS METALS SPECTROSCOPIC ANALYSIS STAR CLUSTERS STARS

METEOROID TECHNOLOGY SATELLITE USE EXPLORER 46 SATELLITE

• MICROGRAVITY USE REDUCED GRAVITY

• MICROGRAVITY APPLICATIONS SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED-CONSULT THE TERMS LISTED BELOW)
RT ELECTROPHORESIS LOW GRAVITY MANUFACTURING SPACE COMMERCIALIZATION SPACE MANUFACTURING SPACE PROCESSING

MICROMECHANICS
RT COMPOSITE MATERIALS CRACK PROPAGATION FRACTURE MECHANICS MECHANICAL PROPERTIES MICROSTRUCTURE REINFORCING FIBERS STRESS CONCENTRATION

MILANKOVITCH THEORY USE CLIMATOLOGY
<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neutral Atmospheres</td>
<td>Use Neutral Atmosphere</td>
</tr>
<tr>
<td>New Brunswick</td>
<td>Use New Brunswick</td>
</tr>
<tr>
<td>Newfoundland</td>
<td>Use Newfoundland</td>
</tr>
<tr>
<td>North Vietnam</td>
<td>Use Vietnam</td>
</tr>
<tr>
<td>Nova Scotia</td>
<td>Use Nova Scotia</td>
</tr>
<tr>
<td>Nowcasting</td>
<td>Use Nowcasting</td>
</tr>
<tr>
<td>Nuclear Medicine</td>
<td>Use Nuclear Medicine</td>
</tr>
</tbody>
</table>

**Power Factor Controllers**

<table>
<thead>
<tr>
<th>Oscillator Strengths</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open Project</td>
<td>Use Open Project</td>
</tr>
<tr>
<td>Plasma Antennas</td>
<td>Use Plasma Antennas</td>
</tr>
<tr>
<td>Plasma Bubbles</td>
<td>Use Plasma Bubbles</td>
</tr>
<tr>
<td>Polar Cusps</td>
<td>Use Polar Cusps</td>
</tr>
<tr>
<td>Polariton</td>
<td>Use Polariton</td>
</tr>
<tr>
<td>Polybrominated Biphenyls</td>
<td>Use Polybrominated Biphenyls</td>
</tr>
<tr>
<td>Power Factor Controllers</td>
<td>Use Power Factor Controllers</td>
</tr>
</tbody>
</table>

**New Term**

- Neutral Atmospheres
- New Brunswick
- Newfoundland
- North Vietnam
- Nova Scotia
- Nowcasting
- Nuclear Medicine

**Power Factor Controllers**

- Oscillator Strengths
- Open Project
- Plasma Antennas
- Plasma Bubbles
- Polar Cusps
- Polariton
- Polybrominated Biphenyls
- Power Factor Controllers

**New Term**

- Neutral Atmospheres
- New Brunswick
- Newfoundland
- North Vietnam
- Nova Scotia
- Nowcasting
- Nuclear Medicine
NASA THESAURUS SUPPLEMENT (PART 1)

ULTRALIGHT AIRCRAFT
RT AIRCRAFT
HANG GLIDERS
LIGHT AIRCRAFT
WINGED VEHICLES

UNIFIED FIELD THEORY
GS FIELD THEORY (PHYSICS)
RT EINSTEIN EQUATIONS
ELECTROMAGNETIC FIELDS
ELECTROMAGNETIC INTERACTIONS
ELECTROMAGNETISM
GRAVITATION THEORY
GRAVITATIONAL FIELDS
PARTICLE THEORY
PLASMA PHYSICS
RELATIVITY
THEORETICAL PHYSICS

UNITED STATES
UF USA (UNITED STATES)
GS NATIONS
RT ALABAMA
ALASKA
ARKANSAS
CALIFORNIA
COLORADO
CONNECTICUT
DELAWARE
FLORIDA
GEORGIA
HAWAII
IDAHO
ILLINOIS
INDIANA
IOWA
KANSAS
KENTUCKY
LOUISIANA
MAINE
MARYLAND
MASSACHUSETTS
MICHIGAN
MINNESOTA
MISSISSIPPI
MISSOURI
MONTANA
NEBRASKA
NEVADA
NEW HAMPSHIRE
NEW JERSEY
NEW MEXICO
NEW YORK
NORTH CAROLINA
NORTH DAKOTA
OHIO
OKLAHOMA
OREGON
PENNSYLVANIA
RHODE ISLAND
SOUTH CAROLINA
SOUTH DAKOTA
TENNESSEE
TEXAS
UTAH
VERMONT
VIRGINIA
WASHINGTON
WEST VIRGINIA
WISCONSIN
WYOMING
ALEUTIAN ISLANDS (US)
CASCADE RANGE (CA-WA)
CENTRAL ATLANTIC REGION (US)
DISTRICT OF COLUMBIA
GREAT LAKES (NORTH AMERICA)
GREAT PLAINS CORRIDOR (NORTH AMERICA)
GUAM
INTERNATIONAL FIELD YEAR FOR
GREAT LAKES
INTERNATIONAL HYDROLOGICAL
DECADE
MISSOURI RIVER (US)
NEW ENGLAND (US)
NORTH AMERICA
PACIFIC NORTHWEST (US)
PANAMA CANAL ZONE
PUERTO RICO
ROCKY MOUNTAINS (NORTH AMERICA)

WASTE HEAT
RT ENERGY TECHNOLOGY
HEAT EXCHANGERS

X RAY TIMING EXPLORER
GS SATELLITES
RT EXPLORER SATELLITES
X RAY TIMING EXPLORER
X RAY TIMING EXPLORER

WASTE CHLORIDE LASERS
GS STIMULATED EMISSION DEVICES
LASERS
GAS LASERS
RARE GAS-HALIDE LASERS
XENON CHLORIDE LASERS

WOLFRAM
USE TUNGSTEN

Volute Controlled Oscillators
UF VCO
RT CIRCUITS
ELECTRIC CONTROL
ELECTRIC NETWORKS
FREQUENCY MODULATION
FREQUENCY STABILITY
MICROWAVE OSCILLATORS
VOLTAGE REGULATORS

XENON CHLORIDE LASERS
GS STIMULATED EMISSION DEVICES
LASERS
GAS LASERS
RARE GAS-HALIDE LASERS
XENON CHLORIDE LASERS

WASTE ENERGY UTILIZATION

WESTERN HEMISPHERE
RT EARTH (PLANET)
EASTERN HEMISPHERE
GEOGRAPHY

WHIRL TOWERS
RT HELICOPTER DESIGN
HOVERING
HOVERING STABILITY
PARACHUTES
ROTARY WINGS
ROTOR AEROYDYNAMICS
SPIN TESTS

WOLFRAM
USE TUNGSTEN

X RAY TIMING EXPLORER
GS SATELLITES
RT EXPLORER SATELLITES
X RAY TIMING EXPLORER
X RAY TIMING EXPLORER

WASTE HEAT
RT ENERGY TECHNOLOGY
HEAT EXCHANGERS

X RAY TIMING EXPLORER
GS SATELLITES
RT EXPLORER SATELLITES
X RAY TIMING EXPLORER
X RAY TIMING EXPLORER

WASTE HEAT
RT ENERGY TECHNOLOGY
HEAT EXCHANGERS

13
NASA THESAURUS SUPPLEMENT

PART 2
ACCESS VOCABULARY

A

A-310 AIRCRAFT
A-320 AIRCRAFT
Access, Demand Assignment Multiple
USE DEMAND ASSIGNMENT MULTIPLE ACCESS
ACCOUNTING
ACCRETION DISKS
Accuracy, Geodetic
USE GEODETIC ACCURACY
Accuracy, Geometric
USE GEOMETRIC ACCURACY
ACEE PROGRAM
Activity, Stellar
USE STELLAR ACTIVITY
ADA (PROGRAMMING LANGUAGE)
Adenosine Monophosphate, Cyclic
USE CYCLIC AMP
AEROASSIST
AEROBRAKING
AEROCAPTURE
Aerodynamic And Struct Test, Drones For
USE DAST PROGRAM
Aerodynamics, Interactional
USE INTERACTIONAL AERODYNAMICS
AEROLELASTIC RESEARCH WINGS
AEROMAGNETISM
AEROMANEUVERING
AGROPHYSICAL UNITS
Aided Design, Computer
USE COMPUTER AIDED DESIGN
Aided Manufacturing, Computer
USE COMPUTER AIDED MANUFACTURING
Aided Mapping, Computer
USE COMPUTER AIDED MAPPING
Air Pollution, Indoor
USE INDOOR AIR POLLUTION
AIR START
Aircraft, A-310
USE A-310 AIRCRAFT
Aircraft, A-320
USE A-320 AIRCRAFT
Aircraft, Electric
USE FLY BY WIRE CONTROL
Aircraft Energy Efficiency Program
USE ACEE PROGRAM
Aircraft, Highly Maneuverable
USE HIGHLY MANEUVERABLE AIRCRAFT
AIRCRAFT POWER SUPPLIES
Aircraft, Ultralight
USE ULTRALIGHT AIRCRAFT
Aircraft, US-2A
USE 5-2 AIRCRAFT
Aircraft, Vertical Attitude Takeoff-Landing
USE VATOL AIRCRAFT
Airfoils, SuperCritical
USE SUPERCRITICAL AIRFOILS
ALBERTA
Alcock Comet, IraS-Araki-
USE IraS-ARAKI-ALCOCK COMET
ALLENDE METEORITE
Amp, Cyclic
USE CYCLIC AMP
Analysis, Cluster
USE CLUSTER ANALYSIS
Analysis, Data Flow
USE DATA FLOW ANALYSIS
Analysis, Gas Path
USE GAS PATH ANALYSIS
Analysis, Image
USE IMAGE ANALYSIS
Analysis, Principal Components
USE PRINCIPAL COMPONENTS ANALYSIS
Analysis, Thermal
USE THERMAL ANALYSIS
ANI K SATELLITES
Anode Microchannel Arrays, Multi-
USE MULTI-ANODE MICROCHANNEL ARRAYS
Anodes, Shell
USE SHELL ANODES
Anomalies, Geothermal
USE GEOTHERMAL ANOMALIES
Antennas, Multibeam
USE MULTIBEAM ANTENNAS
Antennas, Plasma
USE PLASMA ANTENNAS
Antistatic Devices
USE STATIC DISCHARGERS
APL (PROGRAMMING LANGUAGE)
Applications, Microgravity
USE MICROGRAVITY APPLICATIONS
ARABSAT
Araki-Alcock Comet, IraS-
USE IraS-ARAKI-ALCOCK COMET
ARC CLOUDS
ARRIES SOUNDING ROCKET
Arrays, Multi-Anode Microchannel
USE MULTI-ANODE MICROCHANNEL ARRAYS
Arrest, Crack
USE CRACK ARREST
Assignment Multiple Access, Demand
USE DEMAND ASSIGNMENT MULTIPLE ACCESS
ASTRONOMICAL SATELLITES
(Astronomy), Local Group
USE LOCAL GROUP (ASTRONOMY)
ASYMPTOTIC PROPERTIES
Atmosphere, Lunar
USE LUNAR ATMOSPHERE
Atmosphere, Neutral
USE NEUTRAL ATMOSPHERES
ATMOSPHERIC CORRECTION
Atmospheric Loading
USE POLLUTION TRANSPORT
Attitude Takeoff-Landing Aircraft, Vertical
USE VATOL AIRCRAFT
Attractors, Strange
USE STRANGE ATTRACTIONS
AUDIO DATA
AUDIO SIGNALS
AUTOMATED TRANSIT VEHICLES
AUTUMN
AWARDS

B

B, Gravity Probe
USE GRAVITY PROBE B
B Satellite, Magsat
USE MAGSAT B SATELLITE
Backscatter UV Spectrometer, Solar
USE SOLAR BACKSCATTER UV SPECTROMETER
BACKWARD DIFFERENCING
BACKWARD FACING STEPS
BAHAMAS
BALLOONING MODES
BAND RATIONING
BANDSTOP FILTERS
BARYON RESONANCE
Bases, Numerical Data
USE NUMERICAL DATA BASES
Bearings, Magnetic
USE MAGNETIC BEARINGS

Benard Convection, Rayleigh-
USE RAYLEIGH-BENARD CONVECTION

BENIN

Beta Interactions
USE WEAK INTERACTIONS (FIELD THEORY)

BIOFEEDBACK

(Biology), Desynchronization
USE DESYNCHRONIZATION (BIOLOGY)

BIOT NUMBER

Biphenyls, Polybrominated
USE POLYBROMINATED BIPHENYLS

Bistability, Optical
USE OPTICAL BISTABILITY

BIT ERROR RATE

Body Interactions, Rotor
USE ROTOR BODY INTERACTIONS

Braking, Aero
USE AEROBRAKING

BRAZILIAN SPACE PROGRAM

BRITISH COLUMBIA

Bruceton Test
USE STATISTICAL TESTS

Brunswick, New
USE NEW BRUNSWICK

BRUNT-VAISALA FREQUENCY

Bubbles, Plasma
USE PLASMA BUBBLES

BURN-IN

Burning, Hole
USE HOLE BURNING

Business Management
USE INDUSTRIAL MANAGEMENT

C

CAD (Design)
USE COMPUTER AIDED DESIGN

CAM (Manufacturing)
USE COMPUTER AIDED MANUFACTURING

Cambodia
USE KAMPUCHEA

CANADIAN SPACECRAFT

CARIBBEAN REGION

Carrier, European Retrievable
USE EURECA (ESA)

Carrington Rotation
USE SOLAR ROTATION

Casting, Sand
USE SAND CASTING

CATACLYSMIC VARIABLES

CAVITONS

CDC CYBER 205 COMPUTER

Center (NASA), Space Operations
USE SPACE OPERATIONS CENTER (NASA)

CERAMIC MATRIX COMPOSITES

CHANGE DETECTION

Characteristics, Static
USE STATIC CHARACTERISTICS

Chemistry, Computational
USE COMPUTATIONAL CHEMISTRY

Chloride Lasers, Xenon
USE XENON CHLORIDE LASERS

Chromatography, Gel Permeation
USE LIQUID CHROMATOGRAPHY

Circuit Currents, Short
USE SHORT CIRCUIT CURRENTS

CIRCULAR WAVEGUIDES

CIRCULATION DISTRIBUTION

City (NY), New York
USE NEW YORK CITY (NY)

Clouds, Arc
USE ARC CLOUDS

Clouds, Opinuclei
USE OPIVUCHE CLOUDS

CLUSTER ANALYSIS

Coatings, Solar Selective
USE SELECTIVE SURFACES

Coefficients, Drag
USE DRAG COEFFICIENTS

Color, Stellar
USE STELLAR COLOR

Columbia, British
USE BRITISH COLUMBIA

Comet, Encke
USE ENCKE COMET

Comet, Ira-Araki-Alcock
USE IRA-ARANI-ALCOCK COMET

COMMAND LANGUAGES

COMMERCIAL SPACECRAFT

Commercialization, Space
USE SPACE COMMERCIALIZATION

COMMONALITY

Communication, Ship To Shore
USE SHIP TO SHORE COMMUNICATION

Communication Systems, Mobile
USE MOBILE COMMUNICATION SYSTEMS

Components Analysis, Principal
USE PRINCIPAL COMPONENTS ANALYSIS

Composites, Ceramic Matrix
USE CERAMIC MATRIX COMPOSITES

Composition, Stellar
USE STELLAR COMPOSITION

COMPULSATORS

COMPUTATIONAL CHEMISTRY

COMPUTATIONAL GRIDS

COMPUTER AIDED DESIGN

COMPUTER AIDED MANUFACTURING

COMPUTER AIDED MAPPING

Computer, CDC Cyber 205
USE CDC CYBER 205 COMPUTER

Computer Systems, Embedded
USE EMBEDDED COMPUTER SYSTEMS

Computerized Design
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POWER LOSS

Power Plants, Solar Thermal Electric
USE SOLAR THERMAL ELECTRIC POWER PLANTS

Power Supplies, Aircraft
USE AIRCRAFT POWER SUPPLIES

PR
USE PUERTO RICO

PRE-MAIN SEQUENCE STARS

Precession, Vortex
USE VORTEX PRECESSION

PREPROCESSING

PRINCE EDWARD ISLAND

PRINCIPAL COMPONENTS ANALYSIS

Probe B, Gravity
USE GRAVITY PROBE B

Probe, Pioneer 12 Space
USE PIONEER VENUS SPACECRAFT
NASA THESAURUS SUPPLEMENT (PART 2)

Problem, Dining Philosophers
USE DINING PHILOSOPHERS PROBLEM

Process, Fischer-Tropsch
USE FISCHER-TROPSCH PROCESS

Processing, Concurrent
USE CONCURRENT PROCESSING

Processing, Distributed
USE DISTRIBUTED PROCESSING

Processing, Frames (Data)
USE FRAMES (DATA PROCESSING)

Program, ACEE
USE ACEE PROGRAM

Program, Aircraft Energy Efficiency
USE ACEE PROGRAM

Program, Brazilian Space
USE BRAZILIAN SPACE PROGRAM

Program, DAST
USE DAST PROGRAM

Program, Defense Meteorological Satellite
USE DMSP SATELLITES

Program, Energy Efficiency Transport
USE ACEE PROGRAM

Programming Language, Ada
USE ADA (PROGRAMMING LANGUAGE)

Programming Language, APL
USE APL (PROGRAMMING LANGUAGE)

Programming, Logic
USE LOGIC PROGRAMMING

Project, Open
USE OPEN PROJECT

Properties, Asymptotic
USE ASYMPTOTIC PROPERTIES

PROTOCOL (COMPUTERS)

PSEUDOPOTENTIALS

PUBLIC SPEAKING

PULSE REPETITION RATE

Pumped Lasers, Solar-
USE SOLAR-PUMPED LASERS

P78-2 Satellite
USE SCATHA SATELLITE

QUANTUM ELECTRONICS

QUERY LANGUAGES

Radar, Imaging
USE IMAGING RADAR

Radar, Imaging
USE SYNTHETIC APERTURE RADAR

RADARSAT

Radiation Medicine
USE NUCLEAR MEDICINE

RADIOCARDIOGRAPHY

Ramjets, Integral Rocket
USE INTEGRAL ROCKETS RAMJETS

Ranging, Sound Fixing And
USE SOUND FIXING AND RANGING

Rate, Bit Error
USE BIT ERROR RATE

Rate, Pulse Repetition
USE PULSE REPETITION RATE

Ratio, Temperature
USE TEMPERATURE RATIO

Ratioing, Band
USE BAND RATIOING

Ray Imaging Scope, Low Intensity X
USE LIXI SCOPES

Ray Timing Explorer, X
USE X RAY TIMING EXPLORER

RAYLEIGH-BENARD CONVECTION

Rays, Galactic Cosmic
USE GALACTIC COSMIC RAYS

Rearward Facing Steps
USE BACKWARD FACING STEPS

Receivers, Solar
USE SOLAR COLLECTORS

RECTANGULAR WAVEGUIDES

Rectifiers, Reverse Switching
USE REVERSE SWITCHING RECTIFIERS

RED DWARF STARS

REFLECTION NEBULAE

REFORESTATION

Region, Caribbean
USE CARIBBEAN REGION

Relations, Human
USE HUMAN RELATIONS

Relations, Interpersonal
USE HUMAN RELATIONS

Repetition Rate, Pulse
USE PULSE REPETITION RATE

Research Wings, Aerelastic
USE AEROELASTIC RESEARCH WINGS

Resonance, Baryon
USE BARYON RESONANCE

Resonance, Meson
USE MESON RESONANCE

Retardants, Fire
USE FLAME RETARDANTS

Retrievable Carrier, European
USE EURICA (ESA)

REVERSE SWITCHING RECTIFIERS

Reynolds Number, High
USE HIGH REYNOLDS NUMBER

Reynolds Number, Low
USE LOW REYNOLDS NUMBER

ROBOTICS

Rocket, Ares Sounding
USE ARES SOUNDING ROCKET

Rocket Ramjets, Integral
USE INTEGRAL ROCKETS RAMJETS

ROMANIA

ROSAT MISSION

ROTARY ENGINES

Scope, Low Intensity X Ray Imaging
USE LIXI SCOPES
NASA THESAURUS SUPPLEMENT (PART 2)

Speed Photography, High
USE HIGH SPEED PHOTOGRAPHY

SPRING (SEASON)

Stars, Double
USE BINARY STARS

Stars, Pre-Main Sequence
USE PRE-MAIN SEQUENCE STARS

Stars, Red Dwarf
USE RED DWARF STARS

Stars, Symbiotic
USE SYMBIOTIC STARS

Start, Air
USE AIR START

States, United
USE UNITED STATES

STATIC CHARACTERISTICS

STATIC MODELS

STELLAR ACTIVITY

STELLAR COLOR

STELLAR COMPOSITION

STELLAR CORES

Steps, Backward Facing
USE BACKWARD FACING STEPS

Steps, Rearward Facing
USE BACKWARD FACING STEPS

STEREOPHONICS

STRANGE ATTRACTORS

STRATEGIC MATERIALS

Strength, Oscillator
USE OSCILLATOR STRENGTHS

Struct Test, Drones For Aerodynamic And
USE DAST PROGRAM

Structures, Data
USE DATA STRUCTURES

Structures, Telescoping
USE FOLDING STRUCTURES

SUPERCOMPUTERS

SUPERCRITICAL AIRFOILS

SUPERLATTICES

Supplies, Aircraft Power
USE AIRCRAFT POWER SUPPLIES

SURFACE NOISE INTERACTIONS

Surfaces, Minimal
USE MINIMAL SURFACES

Surfaces, Selective
USE SELECTIVE SURFACES

SWATH WIDTH

Switching Rectifiers, Reverse
USE REVERSE SWITCHING RECTIFIERS

SYMBIOTIC STARS

System, Teleoperator Maneuvering
USE TELEOPERATORS

System, Transit Navigation
USE TRANSIT NAVIGATION SYSTEM

Systems Design, Controlled
USE CONTROLLED SYSTEMS DESIGN
Systems, Embedded Computer
USE EMBEDDED COMPUTER SYSTEMS

Systems, Expert
USE EXPERT SYSTEMS

Systems, Flight Management
USE FLIGHT MANAGEMENT SYSTEMS

Systems, Geographic Information
USE GEOGRAPHIC INFORMATION SYSTEMS

Systems, Integrated Library
USE INTEGRATED LIBRARY SYSTEMS

Systems, Mobile Communication
USE MOBILE COMMUNICATION SYSTEMS

Systems, Virtual Memory
USE VIRTUAL MEMORY SYSTEMS

Systems, Expert
USE EXPERT SYSTEMS

Systems, Right Management
USE FLIGHT MANAGEMENT SYSTEMS

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Systems, Integrated Library
USE INTEGRATED LIBRARY SYSTEMS

Systems, Mobile Communication
USE MOBILE COMMUNICATION SYSTEMS

Systems, Virtual Memory
USE VIRTUAL MEMORY SYSTEMS

Timing Explorer, X Ray
USE X RAY TIMING EXPLORER

TIP VANES
Tips, Crack
USE CRACK TIPS

Tools, Software
USE SOFTWARE TOOLS

TOPPING CYCLE ENGINES

Towers, Whirl
USE WHIRL TOWERS

Transducers, Interdigital
USE INTERDIGITAL TRANSDUCERS

Transfer, Payload
USE PAYLOAD TRANSFER

TRANSIT NAVIGATION SYSTEM

Vehicles, Automated, Transport
USE AUTOMATED TRANSPORT VEHICLES

Vehicles, Orbital Maneuvering
USE ORBITAL MANEUVERING VEHICLES

Vehicles, Shuttle Derived
USE SHUTTLE DERIVED VEHICLES

Vertical Attitude Takeoff-Landing Aircraft
USE VATOL AIRCRAFT

VERY LARGE SCALE INTEGRATION

VIDEO SIGNALS

VIRTUAL MEMORY SYSTEMS

VLSI
USE VLSI

VOLUME OF ELECTRICITY

WASTE HEAT

Waves, Nuclear
USE RADIOACTIVE WASTES

Waveguides, Circular
USE CIRCULAR WAVEGUIDES

Waveguides, Rectangular
USE RECTANGULAR WAVEGUIDES

WESTERN HEMISPHERE

WHIRL TOWERS

Wings, Aeroelastic Research
USE AEROELASTIC RESEARCH WINGS

Wings, Cranked
USE SWEPT WINGS

Wolfram
USE TUNGSTEN

X Ray Imaging Scope, Low Intensity
USE LISSOCOPES

X RAY TIMING EXPLORER

XENON CHLORIDE LASERS

York City (NY), New
USE NEW YORK CITY (NY)

YUKON TERRITORY

YUKON TERRITORY

Z

Z-SCORE

ZAMM
Zones, Float
USE FLOAT ZONES

Zones, Liquid Plus Solid
USE MUSHY ZONES

Zones, Mushy
USE MUSHY ZONES

NUMERICAL LISTING

1, SEASAT
USE SEASAT 1

2 Satellite, P78-
USE SCATHA SATELLITE

2 Spacecraft, Mariner Mark
USE MARINER MARK 2 SPACECRAFT

2A Aircraft, US-
USE S-2 AIRCRAFT

4, LANDSAT
USE LANDSAT 4

5, LANDSAT
USE LANDSAT 5

8 Satellite, NOAA
USE NOAA 8 SATELLITE

10 Satellite, Solrad
USE EXPLORER 44 SATELLITE

12 Space Probe, Pioneer
USE PIONEER VENUS SPACECRAFT

44 Satellite, Explorer
USE EXPLORER 44 SATELLITE

46 Satellite, Explorer
USE EXPLORER 46 SATELLITE

103, Space Shuttle Orbiter
USE SPACE SHUTTLE ORBITER 103

104, Space Shuttle Orbiter
USE SPACE SHUTTLE ORBITER 104

205 Computer, CDC Cyber
USE CDC CYBER 205 COMPUTER

310 Aircraft, A-
USE A-310 AIRCRAFT

320 Aircraft, A-
USE A-320 AIRCRAFT

954 Satellite, Cosmos
USE COSMOS 954 SATELLITE
NASA THESAURUS SUPPLEMENT

PART 3

DELETIONS

AEROMAGNETISM
Use GEOMAGNETISM
Deleted, term now postable

BARYON RESONANCES
Transferred to BARYON RESONANCE

CAMBODIA
Transferred to KAMPUCHEA

CHINA (Array term)
Deleted

CHINA (MAINLAND)
Transferred to CHINA

CHINA (TAIWAN)
Transferred to TAIWAN

COMPUTERIZED DESIGN
Transferred to COMPUTER AIDED DESIGN

CONDENSERS (LIQUEFIERS)
Transferred to CONDENSERS (LIQUEFIERS)

DAHOMEY
Transferred to BENIN

DIKES
Use ROCK INTRUSIONS
Deleted

DIFFERENTIAL ANALYZERS
Use ANALOG COMPUTERS
Deleted, term now postable

DIRECTORIES
Use INDEXES (DOCUMENTATION)
Deleted

EXERCISE (PHYSIOLOGY)
Use PHYSICAL EXERCISE
Deleted

EXPERIMENTAL DESIGN
Transferred to EXPERIMENT DESIGN

FLUOROPHLOGOPITE
Transferred to FLUOROPHLOGOPITE

GIOTTO MISSION
Use EUROPEAN SPACE PROGRAM
HALLEY'S COMET
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IMAGING RADAR
Use SYNTHETIC APERTURE RADAR
Deleted, term now postable

INFORMATION TRANSFER
Use COMMUNICATING
Deleted, term now postable

INTELSAT 1 SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT 2 SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT 3 SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT 4 SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT 5 SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT 5B SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT 5C SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT 5F SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT SB SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT SC SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT SF SATELLITE
Transferred to INTELSAT SATELLITES

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INTELSAT 5C SATELLITE
Transferred to INTELSAT SATELLITES

INTELSAT 5F SATELLITE
Transferred to INTELSAT SATELLITES

K-MESONS
Transferred to KAONS

LANDSAT D
Transferred to LANDSAT 4

LARGE SPACE TELESCOPE
Transferred to HUBBLE SPACE TELESCOPE

LOW INTENSITY X-RAY IMAGING SCOPE
Transferred to LOW INTENSITY X-RAY IMAGING SCOPE

LOWER BODY NEGATIVE PRESSURE (LBNP)
Use ACCELERATION STRESSES (PHYSIOLOGY)
Deleted

LUNAR ATMOSPHERES
Transferred to LUNAR ATMOSPHERE

MESON RESONANCES
Transferred to MESON RESONANCE

MUCOUS
Transferred to MUCUS

NORTH VIETNAM
Transferred to VIETNAM

NOVA SATELLITE
Transferred to NOVA SATELLITES

OKHOTSK SEA
Transferred to SEA OF OKHOTSK

PHASED LOCKED SYSTEMS
Transferred to PHASE LOCKED SYSTEMS

RADIATION MEDICINE
Transferred to NUCLEAR MEDICINE

RCA SATCOM C
Transferred to RCA SATCOM SATELLITES

RCA SATCOM 1
Transferred to RCA SATCOM SATELLITES

RCA SATCOM 2
Transferred to RCA SATCOM SATELLITES

ROMANIA
Use RUMANIA
Deleted

RUMANIA
Transferred to ROMANIA

SEASAT-A SATELLITE
Transferred to SEASAT 1

THRUSTORS
Use ROCKET ENGINES
Deleted, term now postable

TIROS N SATELLITES
Transferred to TIROS N SERIES SATELLITES

TRANSIT 1A SATELLITE
Transferred to TRANSIT SATELLITES

TRANSIT 1B SATELLITE
Transferred to TRANSIT SATELLITES

TRANSIT 2A SATELLITE
Transferred to TRANSIT SATELLITES

TRANSIT 3B SATELLITE
Transferred to TRANSIT SATELLITES

TRANSIT 4A SATELLITE
Transferred to TRANSIT SATELLITES

TRANSIT 4B SATELLITE
Transferred to TRANSIT SATELLITES

TRANSIT 5A SATELLITE
Transferred to TRANSIT SATELLITES

UNITED STATES OF AMERICA
Transferred to UNITED STATES

VERTICAL ATTITUDE TAKEOFF-LANDING AIRCRAFT
Use VATOL AIRCRAFT
Changed to
VERTICAL ATTITUDE TAKEOFF-LANDING AIRCRAFT
Use VATOL AIRCRAFT
The three part cumulative NASA Thesaurus Supplement to the 1982 edition of the NASA Thesaurus includes Part 1, Hierarchical Listing, Part 2, Access Vocabulary, and Part 3, Deletions. The semiannual supplement gives complete hierarchies for new terms and includes new term indications for terms new to this supplement.